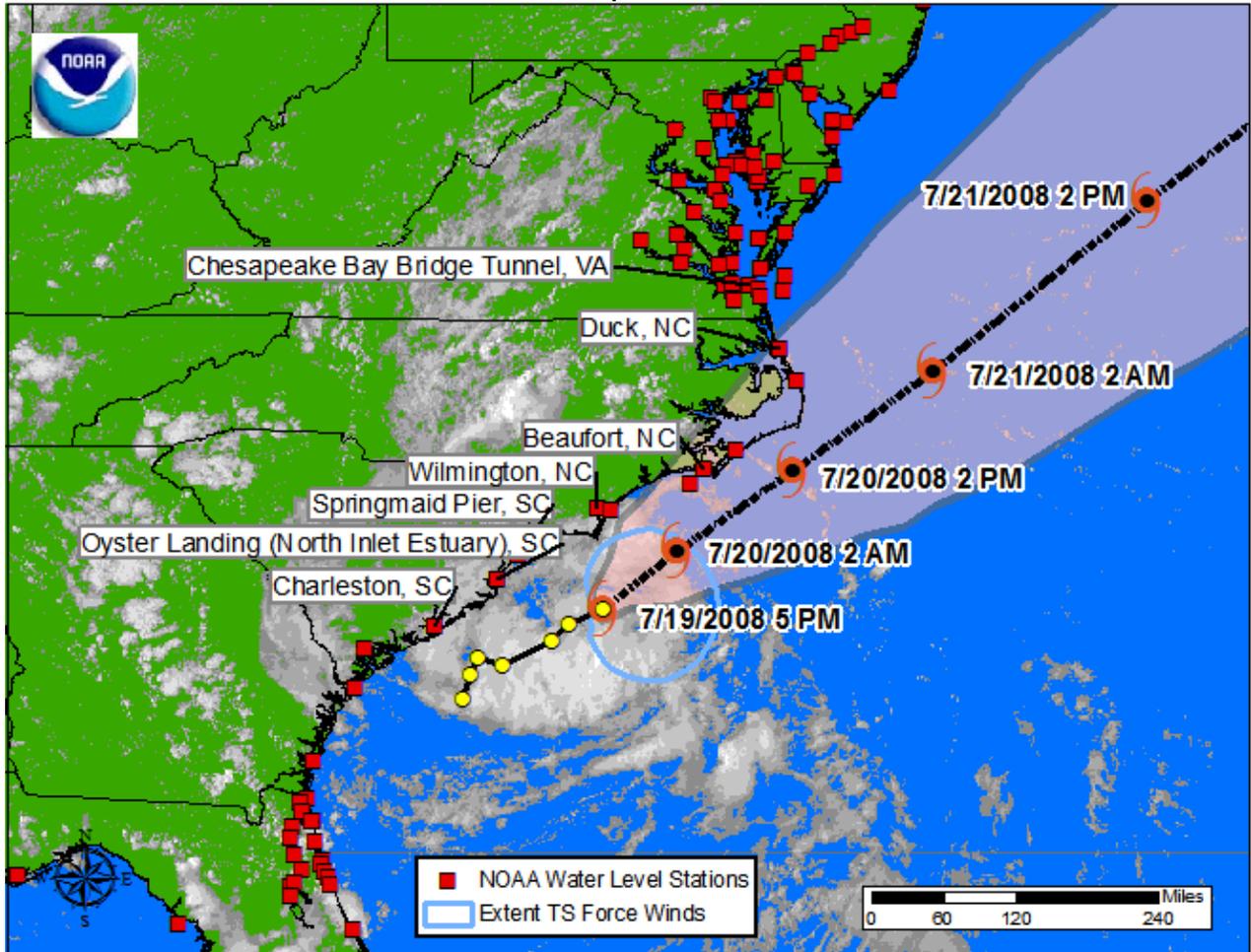




Tropical Storm CRISTOBAL QuickLook
Posted: 19:00 EDT 07/19/2008

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/19/2008 19:00 EDT, water levels from South Carolina to North Carolina remain slightly above or at predicted levels. Barometric pressure is falling at Springmaid Pier, SC and slightly falling at Duck, NC and Chesapeake Bay Brridge Tunnel, VA.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Charleston, SC: Next predicted high tide is 5.8 ft (1.77 m) on 07/19/2008 at 21:46 EDT.

Oyster Landing, SC: Next predicted high tide is 5.1 ft (1.55 m) on 07/19/2008 at 21:24 EDT.

Springmaid Pier, SC: Next predicted high tide is 5.6 ft (1.71 m) on 07/19/2008 at 21:09 EDT.

Wilmington, NC: Next predicted high tide is 4.6 ft (1.40 m) on 07/19/2008 at 23:17 EDT.

Beaufort, NC: Next predicted high tide is 3.8 ft (1.16 m) on 07/19/2008 at 21:45 EDT.

Duck, NC: Next predicted high tide is 3.7 ft (1.13 m) on 07/19/2008 at 21:08 EDT.

CBBT, VA: Next predicted high tide is 2.9 ft (0.88 m) on 07/19/2008 at 21:58 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services website](#). For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst: KG & LF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

**TROPICAL STORM CRISTOBAL ADVISORY NUMBER 4
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL
500 PM EDT SAT JUL 19 2008**

...CRISTOBAL STRENGTHENS OFF THE SOUTH CAROLINA COAST...

A TROPICAL STORM WARNING REMAINS IN EFFECT FROM SOUTH SANTEE RIVER SOUTH CAROLINA TO THE NORTH CAROLINA/VIRGINIA BORDER INCLUDING PAMLICO SOUND. A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED WITHIN THE WARNING AREA WITHIN THE NEXT 24 HOURS.

AT 500 PM EDT THE CENTER OF TROPICAL STORM CRISTOBAL WAS LOCATED NEAR ABOUT 125 MILES, 195 KM EAST OF CHARLESTON SOUTH CAROLINA AND ABOUT 205 MILES, 330 KM SOUTHWEST OF CAPE HATTERAS NORTH CAROLINA.

CRISTOBAL IS MOVING TOWARD THE NORTHEAST NEAR 7 MPH AND THIS GENERAL MOTION IS EXPECTED TO CONTINUE FOR THE NEXT COUPLE OF DAYS WITH SOME INCREASE IN FORWARD SPEED.

ON THIS TRACK THE CENTER OF THE TROPICAL STORM IS EXPECTED TO MOVE PARALLEL AND VERY CLOSE TO THE COASTS OF SOUTH AND NORTH CAROLINA TODAY AND TOMORROW.

MAXIMUM SUSTAINED WINDS ARE NEAR 45 MPH WITH HIGHER GUSTS. SLOW STRENGTHENING IS FORECAST DURING THE NEXT DAY OR TWO.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 85 MILES FROM THE CENTER.

THE LATEST MINIMUM CENTRAL PRESSURE REPORTED BY AN AIR FORCE RESERVE RECONNAISSANCE AIRCRAFT IS 1005 MB.

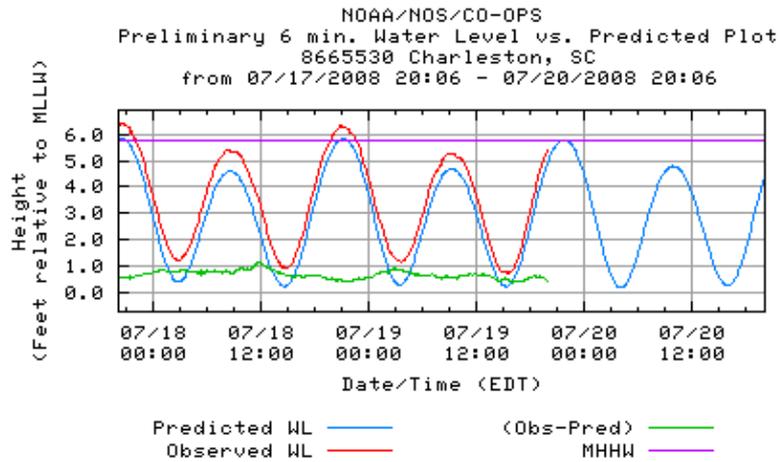
RAINFALL AMOUNTS OF 3 TO 5 INCHES ARE EXPECTED ALONG THE NORTH CAROLINA COAST WITH ISOLATED HEAVIER AMOUNTS.

FORECASTER BLAKE/KNABB

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

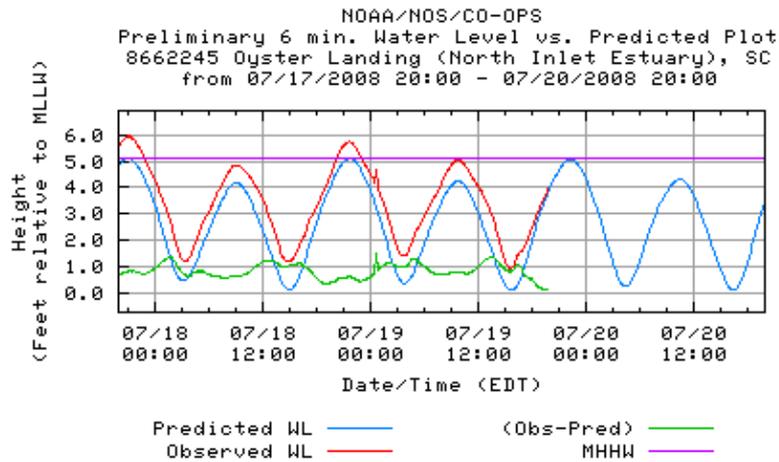
Jump to: [Charleston - Water Level](#), [Oyster Landing \(North Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Wilmington - Water Level](#), [Beaufort - Water Level](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#),

Charleston, SC - Station Map [Return to List](#)



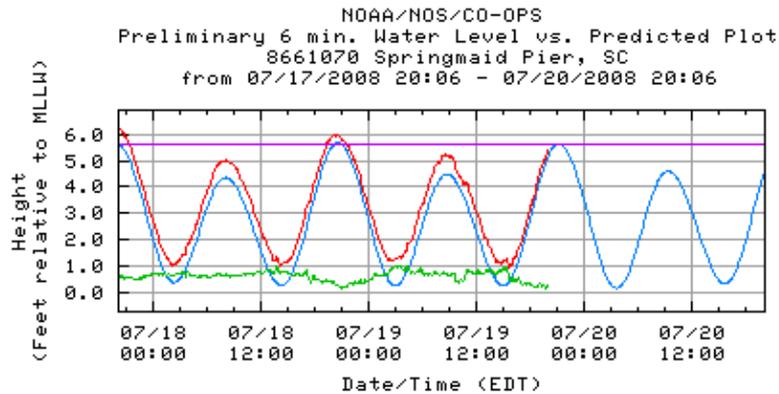
Last Observed Sample: 07/19/2008 19:54 (EDT)
 Relative to **MLLW**: **Observed: 5.38 ft. Predicted: 4.92 ft. Residual: 0.46 ft.**
 Historical Maximum Water Level: 09/21/1989, 6.76 ft. above **MHHW**

Oyster Landing (North Inlet Estuary), SC - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 19:48 (EDT)
 Relative to **MLLW**: **Observed: 3.93 ft. Predicted: 3.80 ft. Residual: 0.13 ft.**
 Historical Maximum Water Level: 07/22/2001, 2.21 ft. above **MHHW**

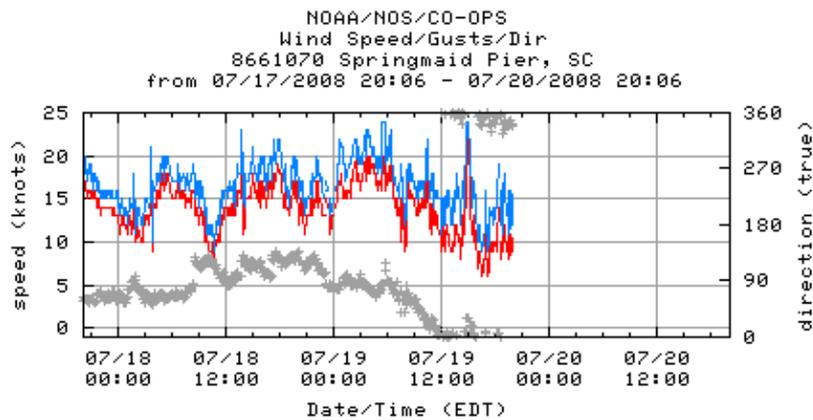
Springmaid Pier, SC - Station Map [Return to List](#)



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 07/19/2008 19:54 (EDT)
 Relative to **MLLW**: **Observed: 5.42 ft. Predicted: 5.13 ft. Residual: 0.29 ft.**
 Historical Maximum Water Level: 01/01/1987, 3.65 ft. above **MHHW**

Springmaid Pier, SC - Station Map [Return to List](#)



speed ——— gusts ——— direction +

Last Observed Sample: 07/19/2008 19:54 (EDT)
Wind Speed: 9 knots Gusts: 12 knots Direction: 342° T

Springmaid Pier, SC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
 Barometric Pressure Plot
 8661070 Springmaid Pier, SC
 from 07/17/2008 20:06 - 07/20/2008 20:06



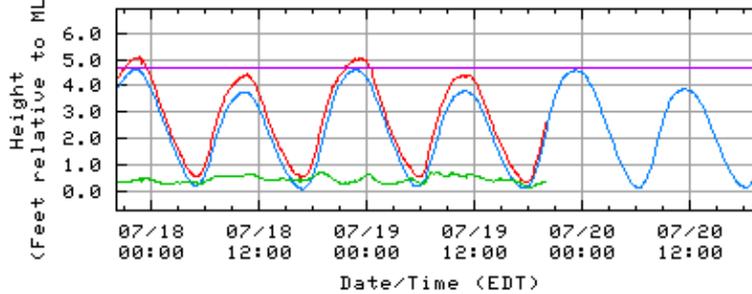
barometric pressure —

Last Observed Sample: 07/19/2008 19:54 (EDT)

Barometric Pressure: 1012.6 mb

Wilmington, NC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8658120 Wilmington, NC
 from 07/17/2008 20:06 - 07/20/2008 20:06



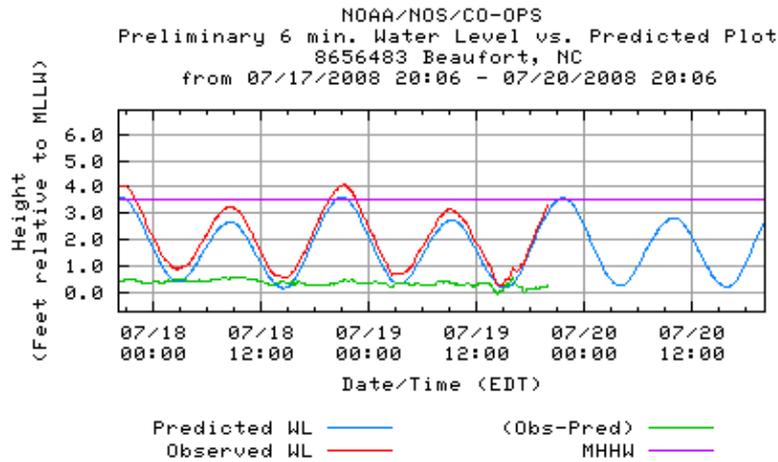
Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

Last Observed Sample: 07/19/2008 19:54 (EDT)

Relative to **MLLW**: Observed: 2.58 ft. Predicted: 2.21 ft. Residual: 0.37 ft.

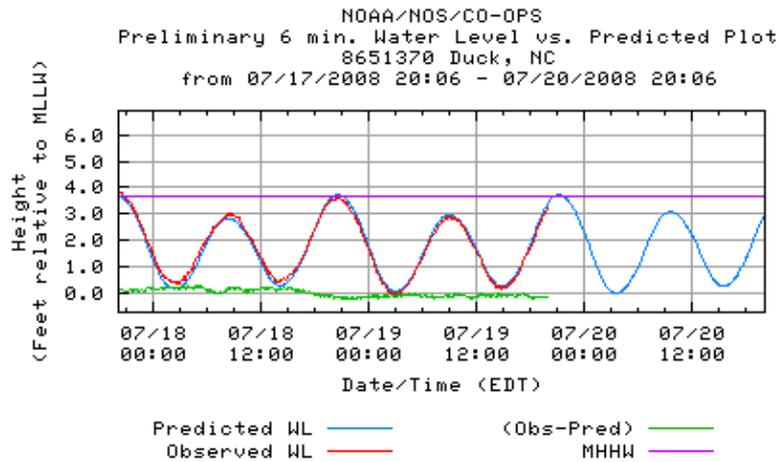
Historical Maximum Water Level: 10/15/1954, 3.47 ft. above **MHHW**

Beaufort, NC - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 19:54 (EDT)
 Relative to **MLLW**: **Observed: 3.31 ft. Predicted: 3.02 ft. Residual: 0.29 ft.**
 Historical Maximum Water Level: 09/16/1999, 2.74 ft. above **MHHW**

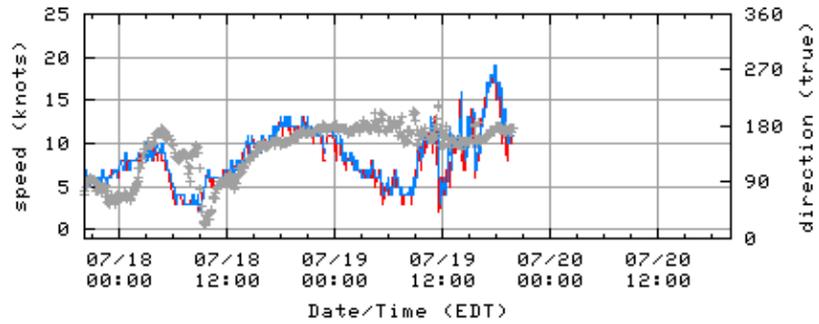
Duck, NC - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 19:54 (EDT)
 Relative to **MLLW**: **Observed: 3.23 ft. Predicted: 3.39 ft. Residual: -0.16 ft.**
 Historical Maximum Water Level: 08/30/1999, 3.23 ft. above **MHHW**

Duck, NC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8651370 Duck, NC
from 07/17/2008 20:06 - 07/20/2008 20:06



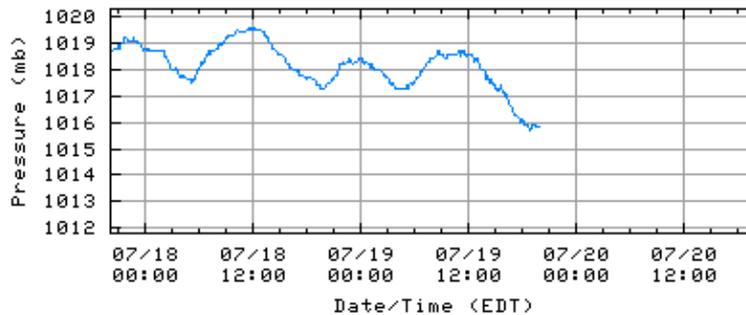
speed — gusts — direction +

Last Observed Sample: 07/19/2008 19:54 (EDT)

Wind Speed: 11 knots Gusts: 11 knots Direction: 178° T

Duck, NC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8651370 Duck, NC
from 07/17/2008 20:06 - 07/20/2008 20:06

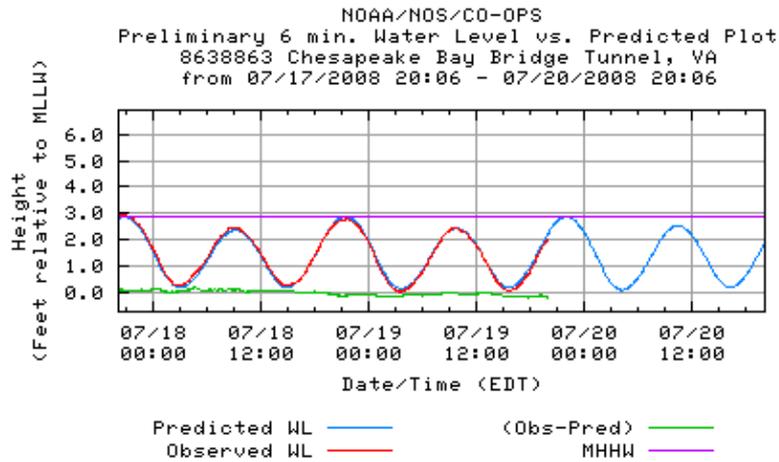


barometric pressure —

Last Observed Sample: 07/19/2008 19:54 (EDT)

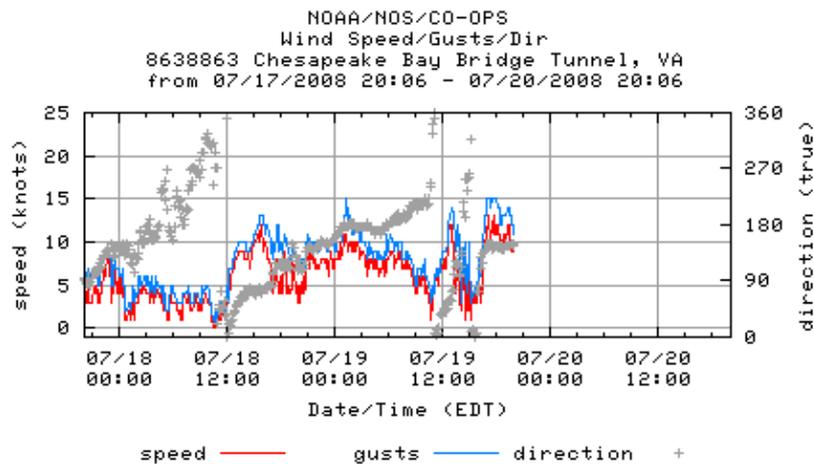
Barometric Pressure: 1015.8 mb

Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 19:54 (EDT)
 Relative to **MLLW**: **Observed: 2.05 ft. Predicted: 2.21 ft. Residual: -0.16 ft.**
 Historical Maximum Water Level: 02/05/1998, 3.68 ft. above **MHHW**

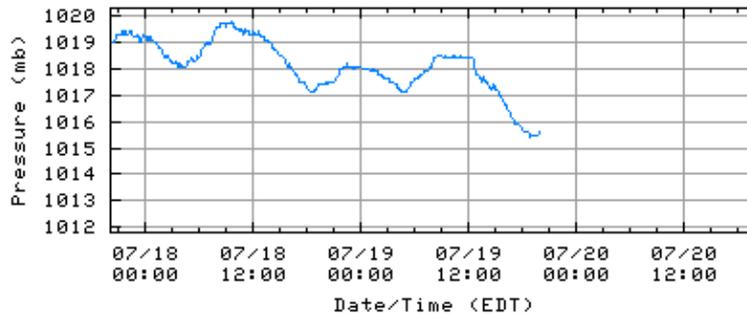
Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 19:54 (EDT)
Wind Speed: 9 knots Gusts: 11 knots Direction: 147° T

Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8638863 Chesapeake Bay Bridge Tunnel, VA
from 07/17/2008 20:06 - 07/20/2008 20:06



barometric pressure —

Last Observed Sample: 07/19/2008 19:54 (EDT)

Barometric Pressure: 1015.6 mb

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce